

Attorney's Docket No. 5218-84

#3  
JDS  
4-18-01  
PATENT  
mell

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Andrew Stuart et al.

Serial No.: To be assigned

Filed: Concurrently herewith

For: **METHODS AND DEVICES FOR ENHANCING FLUENCY IN PERSONS  
WHO STUTTER EMPLOYING VISUAL SPEECH GESTURES**

JC903 U.S. PTO  
09/718222



Date: November 20, 2000

BOX PATENT APPLICATION

Commissioner for Patents

Washington, DC 20231

**INFORMATION DISCLOSURE STATEMENT  
CITATION UNDER 37 C.F.R. § 1.97**

Sir:

Attached is a list of documents on form PTO-1449 together with a copy of each identified document. It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. § 1.97 and Section 609 of the MPEP.

Respectfully submitted,

  
Julie H. Richardson  
Registration No. 40,142

USPTO Customer No. 20792

Myers Bigel Sibley & Sajovec, P.A.

P.O. Box 37428

Raleigh NC 27627

Tel (919) 854-1400

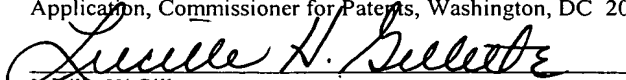
Fax (919) 854-1401

CERTIFICATE OF EXPRESS MAILING

"Express Mail" mailing label number EL481797402US

Date of Deposit: November 20, 2000

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Box Patent Application, Commissioner for Patents, Washington, DC 20231.

  
Lucille H. Gillette

<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office  <b>LIST OF DOCUMENTS CITED BY APPLICANT</b>  (Use several sheets if necessary)	Attorney Docket Number <b>5218-84</b>	Serial No. To be assigned
	Applicants: <b>Andrew Stuart et al.</b>	
	Filing Date <b>Concurrently herewith</b>	



## U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1.	4,336,524	06/22/82	Levine	340	311.1	
	2.	4,464,119	08/07/84	Vildgrube et al.	434	185	
	3.	4,636,866	01/13/87	Hattori	358	236	
	4.	4,695,129	09/22/87	Faessen et al.	350	96.25	
	5.	4,856,045	08/08/89	Hoshina	379	53	
	6.	4,916,441	10/10/90	Gombrich	340	712	
	7.	4,934,773	06/19/90	Becker	350	6.6	
	8.	5,003,300	03/26/91	Wells	340	705	
	9.	5,048,077	09/10/91	Wells et al.	379	96	
	10.	5,106,179	04/21/92	Kamaya et al.	351	158	
	11.	5,111,498	05/05/92	Guichard et al.	379	53	
	12.	5,138,312	08/11/92	Tsukakamoto et al.	340	825.44	
	13.	5,189,632	02/23/93	Paajanen et al.	364	705.05	
	14.	5,281,957	01/25/94	Schoolman	345	8	
	15.	5,347,400	09/13/94	Hunter	359	815	
	16.	5,485,318	01/16/96	Lebby et al.	359	811	
	17.	5,485,504	01/16/96	Ohnsorge	379	58	
	18.	5,561,538	10/01/96	Kato et al.	359	40	
	19.	5,596,451	01/21/97	Handschy et al.	359	633	
	20.	5,826,427	10/27/98	Faris	349	5	
	21.	5,961,443	10/05/99	Rastatter et al.	600	23	
	22.	6,073,034	06/06/00	Jacobsen et al.	455	566	

EXAMINER \_\_\_\_\_

DATE CONSIDERED \_\_\_\_\_

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449 U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>  <b>LIST OF DOCUMENTS CITED BY APPLICANT</b>  (Use several sheets if necessary)				Attorney Docket Number <b>5218-84</b>		Serial No. <b>To be assigned</b>	
				Applicants: <b>Andrew Stuart et al.</b>			
				Filing Date <b>Concurrently herewith</b>		Group	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes   No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	23.	"Excuse me, is that a monitor on your head?", CNN.com, <a href="http://www.cnn.com/2000/TECH/computing/03/31/head.monitor.idg/index.html">http://www.cnn.com/2000/TECH/computing/03/31/head.monitor.idg/index.html</a> (8/30/2000).					
	24.	"New Wired Clothing Comes with Personal Network," <a href="http://cnn.com/2000/TECH/computing/08/18/wired.jacket.idg/index.html">cnn.com/2000/TECH/computing/08/18/wired.jacket.idg/index.html</a> (posted on 8/18/00).					
	25.	"Visions of wearable Internet ware," CNN.com, <a href="http://www.cnn.com/2000/STYLE/fashion/06/26/wearable.computers/index.html">http://www.cnn.com/2000/STYLE/fashion/06/26/wearable.computers/index.html</a> (8/30/2000).					
	26.	Adams et al., "The Effects of Auditory Masking on the Anxiety Level, Frequency of Dysfluency, and Selected Vocal Characteristics of Stutterers," J. Speech Hear. Res., 15, pp. 572-578 (1972).					
	27.	Andrews et al. "Stuttering: A Review of Research Findings and Theories," circa 1982, J. Speech Hear. Disord., 48, pp. 226-246 (August 1983).					
	28.	Andrews et al., "Stuttering: Speech Pattern Characteristics Under Fluency-Inducing Conditions," J. Speech Hear. Res., 25, pp. 208-215 (June 1982).					
	29.	Bakker, K. "Clinical Technologies for the Reduction of Stuttering and Enhancement of Speech Fluency," <i>Seminars in Speech and Language</i> , 20 (3), pp. 271-279 (1999).					
	30.	Barber, V. "Studies in the Psychology of Stuttering: XV. Chorus Reading as a Distraction in Stuttering," J. Speech Disord., 4, pp. 371-383 (1939).					
	31.	Calvert et al., "Activation of Auditory Cortex During Silent Lipreading," Science, Vol. 276, pp. 593-596 (25 April 1997) <a href="http://www.sciencemag.org">http://www.sciencemag.org</a> .					
	32.	Cherry et al., "Experiments Upon Total Inhibition of Stammering by External Control and Some Clinical Results," J. Psychosom. Res., 1, pp. 233-246 (1956).					
	33.	Conture, E.G., "Some Effects of Noise on the Speaking Behavior of Stutterers," J. Speech Hear. Res., 17, pp. 714-723 (1974).					
	34.	Dodd, "Interaction of auditory and visual information in speech perception," British Journal of Psychology, Vol. 71, pp. 541-549 (1980).					
	35.	Erber, "Auditory-Visual Perception of Speech," Journal of Speech and Hearing Disorders, pp. 481-492 (1975).					
	36.	Fox et al., "A PET Study of the Neural Systems of Stuttering," Nature, 382, pp. 158-161 (11 July 1996).					
	37.	Hargrave et al., "Effect of Frequency-Altered Feedback on Stuttering Frequency at Normal and Fast Speech Rates," J. of Speech and Hearing Res., 37, pp. 1313-1319 (December 1994).					
	38.	Howell et al., "Automatic Recognition of Repetitions and Prolongations in Stuttered Speech," C. W. Starkweather and H.F.M. Peters (Eds.), Proceedings of the First World Congress on Fluency Disorders, Vol. II, pp. 372-374, The Netherlands University Press, Nijmegen (1995).					

EXAMINER \_\_\_\_\_

DATE CONSIDERED \_\_\_\_\_

\*EXAMINER

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office  <b>LIST OF DOCUMENTS CITED BY APPLICANT</b>  (Use several sheets if necessary)		Attorney Docket Number <b>5218-84</b>	Serial No. <b>To be assigned</b>
		Applicants: <b>Andrew Stuart et al.</b>	
		Filing Date <b>Concurrently herewith</b>	Group
	39.	Howell et al., "Automatic Stuttering Frequency Counts," W. Hulstijn, et al. (Eds.), Speech Production: Motor Control, Brain Research and Fluency Disorders, Amsterdam, Elsevier Science, pp. 395-404 (1997).	
	40.	Howell et al., "Development of a Two-Stage Procedure for the Automatic Recognition of Dysfluencies in the Speech of Children Who Stutter: I. Psychometric Procedures Appropriate for Selection of Training Material for Lexical Dysfluency Classifiers," Journal of Speech, Language, and Hearing Research, Vol. 40, pp. 1073-1084 (October 1997).	
	41.	Howell et al., "Development of a Two-Stage Procedure for the Automatic Recognition of Dysfluencies in the Speech of Children Who Stutter: II. ANN Recognition of Repetitions and Prolongations with Supplied Word Segment Markers," Journal of Speech, Language, and Hearing Research, Vol. 40, pp. 1085-1096 (October 1997).	
	42.	Jayant, Nikil et al., "Signal Compression Based on Models of Human Perception," Proceedings of the IEEE, Vol. 81, No. 10, pp. 1385-1422 (1993).	
	43.	Johnson et al., "Studies in the Psychology of Stuttering: VII. Effect of Certain Changes in Speech Pattern Upon Frequency of Stuttering," J. Speech Disord., 2, pp. 105-109 (1937).	
	44.	Kalinowski et al., "Effect of Normal and Fast Articulatory Rates on Stuttering Frequency," J. of Fluency Disorders, 20, pp. 293-302 (1995).	
	45.	Kalinowski et al., "Effects of Alterations in Auditory Feedback and Speech Rate on Stuttering Frequency," Language and Speech, 36 (1), pp. 1-16 (1993).	
	46.	Kalinowski et al., "Inducement of Fluent Speech in Persons Who Stutter Via Visual Choral Speech," Neurosci. Lett., 280, pp. 1-3 (2000).	
	47.	Kalinowski et al., "Stuttering Amelioration at Various Auditory Feedback Delays and Speech Rates," European Journal of Disorders of Communication, 31, pp. 259-269 (1996).	
	48.	Kuniszyk-Jozkowiak et al., "Effect of Acoustical, Visual, and Tactile Reverberation on Speech Fluency of Stutterers," Folia Phoniatr. Logop., 49, pp. 26-34 (1997).	
	49.	Kuniszyk-Jozkowiak et al., "Effect of Acoustical, Visual, and Tactile Echo on Speech Fluency of Stutterers," Folia Phoniatr. Logop., 48, pp. 193-200 (1996).	
	50.	MacLeod et al., "Effect of Single and Combined Altered Auditory Feedback on Stuttering Frequency At Two Speech Rates," J. of Commun. Disorders, 28, pp. 217-228 (1995).	
	51.	Massaro et al., "Evaluation and Integration of Visual and Auditory Information in Speech Perception," Journal of Experimental Psychology, Human Perception and Performance, Vol. 9, No. 5, pp. 753-771 (1983).	
	52.	Massaro et al., "Perception of asynchronous and conflicting visual and auditory speech," J. Acoust. Soc. Am. Vol. 100, No. 3, pp. 1777-1786 (September 1996).	
	53.	May et al., "Some Effects of Masking and Eliminating Low Frequency Feedback on the Speech of Stammerers," Behav. Res. & Therapy, 6, pp. 219-223 (1968).	
	54.	McGurk et al., "Hearing lips and seeing voices," Reprinted from Nature, Vol. 264, pp. 746-748 (1976).	
	55.	Perkins, "From Psychoanalysis to Discoordination," H.H. Gregory (Ed.) "Controversies About Stuttering Therapy," pp. 97-127, University Press (1979).	

EXAMINER \_\_\_\_\_

DATE CONSIDERED \_\_\_\_\_

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office  <b>LIST OF DOCUMENTS CITED BY APPLICANT</b>  (Use several sheets if necessary)		Attorney Docket Number <b>5218-84</b>	Serial No. <b>To be assigned</b>
		Applicants: <b>Andrew Stuart et al.</b>	
		Filing Date <b>Concurrently herewith</b>	Group
	56.	Perkins et al., "Phone Rate and the Effective Planning Time Hypothesis of Stuttering," 29. J. of Speech and Hearing Res., 22, pp. 747-755 (December 1979).	
	57.	Puce et al., "Differential Sensitivity of Human Visual Cortex to Faces, Letterstrings, and Textures: A Functional Magnetic Resonance Imaging Study," J. Neurosci, Vol. 16, No. 16, pp. 5205-5215 (August 15, 1996).	
	58.	Sams et al., "Face-Specific Response from the Human Inferior Occipito-Temporal Cortex," Neurosci., Vol. 77, No. 1, pp. 49-55 (1997).	
	59.	Sams et al., "Seeing speech: visual information from lip movements modifies activity in the human auditory cortex," Neuroscience Letters, Vol. 127, pp. 141-145 (1991).	
	60.	Stuart et al., "Fluent Speech, Fast Articulatory Rate, and Delayed Auditory Feedback: Creating a Crisis for a Scientific Revolution?" Perceptual and Motor Skills, 82, pp. 211-218 (1996).	
	61.	Tye-Murray, "Visual feedback during speech production," J. Acoust. Soc. Am., Vol., 79, No. 4, pp. 1169-1171 (April 1986).	
	62.	Wu et al., "A Position Emission Tomograph [18F]Deoxyglucose Study of Developmental Stuttering," Neuroreport, 6, pp. 501-505 (1995).	

EXAMINER \_\_\_\_\_

DATE CONSIDERED \_\_\_\_\_

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.